

GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: December 24, 2002, 22:08:57 ; Search time 68 Seconds  
(without alignments)  
811.261 Million cell updates/sec

Title: US-09-708-724a-2

Perfect score: 2187

Sequence: 1 MGPSVSVVLVCGHRLGOAL.....LLAVTRGLELRRIRKRAE 414

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 100%

Listed first 45 summaries

Database :

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3: /SIDS2/gcgdata/geneseq/geneseq-emb1/AA1982.DAT.\*  
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22: /SIDS2/gcgdata/geneseq/geneseq-emb1/AA2001.DAT.\*  
23: /SIDS2/gcgdata/geneseq/geneseq-emb1/AA2002.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	259.5	11.9	334	ABG04612	Novel human diago
2	258	11.7	133	AB41145	Peptide #8651 enco
3	256	11.7	133	AAAG2001	Human brain expro
4	256	11.7	133	AA74805	Human bone marrow
5	256	11.7	133	AA34921	Peptide #8958 enco
6	256	11.7	133	ABG44596	Human peptide enco
7	254	11.6	122	ABG04611	Novel human diago
8	130	5.9	1178	ABG68342	Drosophila melanog
9	129.5	5.9	641	AA38978	Human polypeptide
10	129.5	5.9	698	AA38977	Human polypeptide

11	129.5	5.9	698	22	AA39032	Human polypeptide
12	129.5	5.9	705	22	AA394135	Human protein sequ
13	129.5	5.9	706	22	AA38979	Human polypeptide
14	129.5	5.9	1837	21	AA38564	Human homologue of
15	128.5	5.9	1837	22	AB65774	Drosophila melanog
16	128	5.9	1593	23	AA48935	Murine MEKK1-2. M
17	125.5	5.7	595	22	AAE01114	Human gene 1 encod
18	125.5	5.7	595	23	ABG64591	Human albumin fusi
19	125.5	5.7	1560	21	AA318792	The human ribosome
20	125	5.7	1328	22	AA378519	Human protein SEQ
21	125	5.7	1331	22	AA379503	Human protein SEQ
22	123.5	5.6	2639	22	ABG15016	Novel human diago
23	120.5	5.5	608	22	AA320164	Human protein asso
24	118	5.4	482	22	AA331195	Amino acid sequenc
25	118	5.4	482	22	AA37586	Human secreted pro
26	118	5.4	482	22	AA365298	Human PRO7170 prot
27	118	5.4	482	22	AA327225	Human EXMAD-3 SEQ
28	118	5.4	538	22	AA38985	Human polypeptide
29	118	5.4	538	22	AAE06598	Human protein havi
30	117	5.3	905	18	AA31186	Human p160 polypep
31	116	5.3	561	22	AA40771	Human polypeptide
32	115	5.3	503	22	AA320165	Human protein asso
33	114	5.2	2161	22	AA378959	Human protein SEQ
34	114	5.2	2189	22	AA379943	Human protein SEQ
35	114	5.2	2523	22	AAU03503	Human protein kina
36	113.5	5.2	401	21	AA341664	Human ORFX ORF1428
37	113.5	5.2	425	22	AAU55309	Protonibacterium
38	113.5	5.2	1721	19	AA48299	Cryptosporidium pa
39	113	5.2	1145	22	AAU04895	Micromonospora eve
40	113	5.2	2429	23	AAE21713	Human PKIN-8 prote
41	112.5	5.1	584	23	AAE23791	Human BCAS1 (brea
42	112.5	5.1	594	22	ABG16928	Novel human diago
43	112.5	5.1	914	22	ABG69998	Drosophila melanog
44	112.5	5.1	1331	22	ABG28241	Novel human diago
45	112	5.1	712	23	ABP61500	Human NF-KB activa

\*ALIGNMENTS

RESULT 1

ABG04612  
ID ABG04612 standard; Protein; 334 AA.  
XX  
AC ABG04612;  
XX  
DT 13-FEB-2002 (first entry)  
XX  
DE Novel human diagnostic protein #4603.

Human; chromosome mapping; gene mapping; forensic;  
food supplement; medical imaging; diagnostic; genetic disorder.

OS Homo sapiens.

PN WO200175067-A2.

PD 11-OCT-2001.

PF 30-MAR-2001; 2001WO-US08631.

PR 31-MAR-2000; 2000US-0540217.

PR 23-AUG-2000; 2000US-0649167.

XX (HYSE-) HYSEQ INC.

Drmanac RT, Liu C, Tang YT;

WPI; 2001-639362/73.

DR N-PSDB; AAS68799.

PT New isolated polynucleotide and encoded polypeptides, useful in  
diagnostics, forensics, gene mapping, identification of mutations

PT responsible for genetic disorders or other traits and to assess  
PT biodiversity -  
XX  
PS Claim 20; SEQ ID No 34971; 103pp; English.  
XX  
XX The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC (II). (II) is useful for generating antibodies against it, detecting or  
CC quantitating a polypeptide in tissue, as molecular weight markers and as  
CC a food supplement. (II) and its binding partners are useful in medical  
CC imaging of sites expressing (II). (I) and (II) are useful for treating  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC responsible for genetic disorders or other traits to assess biodiversity  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. ABG00010-ABG30377 represent novel human  
CC diagnostic amino acid sequences of the invention.  
CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
XX Sequence 334 AA;  
Query Match 11.9%; Score 259.5; DB 22; Length 334;  
Best Local Similarity 43.4%; Pred. No. 4.8e-13;  
Matches 63; Conservative 12; Mismatches 29; Indels 41; Gaps 4;  
QY 236 SESOILKESFVPTTPKNNKQREDENRLLPPPPVAETVPSPSYTETPLQRIPTA 295  
DB 104 AESKNLKESVVPPTASIEKNKQREDKNPILPPPPVAETSVPPPSVAGIETPIQLIRSA 163  
QY 296 TIAGEPLGHCTFTIS-----PAFVH-----SVLNKRRQ----- 324  
DB 164 ATAGESPGCAFPISVRPDSNNPQQIETHTPLEFKLLNELKTSVVNIGVQSPFTLGLPE 223  
QY 325 -----LELLRLREVWGRGHMAATC 344  
DB 224 SAFGAMRLLPFDVK-----HWARTC 243  
RESULT 2  
ABB41145  
ID ABB41145 standard; Peptide; 133 AA.  
XX  
AC ABB41145;  
XX  
DT 04-FEB-2002 (first entry)  
XX  
DE Peptide #8651 encoded by human foetal liver single exon probe.  
XX  
KW Human; foetal liver; gene expression; single exon nucleic acid probe.  
XX  
OS Homo sapiens.  
XX  
PN WO200157277-A2.  
XX  
PD 09-AUG-2001.  
XX  
PF 30-JAN-2001; 2001WO-US00669.  
XX  
PR 04-FEB-2000; 2000US-0180312.  
PR 26-MAY-2000; 2000US-0207456.  
PR 30-JUN-2000; 2000US-0608408.  
PR 03-AUG-2000; 2000US-0632366.  
PR 21-SEP-2000; 2000US-0234687.  
PR 27-SEP-2000; 2000US-0236359.  
PR 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.  
PA Penn SG, Hanzel DK, Chen W, Rank DR;  
XX  
XX WPI; 2001-483447/52.  
DR  
XX Human genome-derived single exon nucleic acid probes useful for  
PT analyzing gene expression in human fetal liver -  
PT  
XX Claim 27; SEQ ID NO 33780; 639pp + sequence listing; English.  
PS  
XX The invention relates to a single exon nucleic acid probe for  
CC measuring human gene expression in a sample derived from human foetal  
CC liver. The single exon nucleic acid probes may be used for predicting,  
CC measuring and displaying gene expression in samples derived from human  
CC foetal liver. The present sequence is a peptide encoded by a single exon  
CC nucleic acid probe of the invention.  
CC Note: The sequence data for this patent did not form part of the  
CC printed specification, but was obtained in electronic format directly  
CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
XX Sequence 133 AA;  
Query Match 11.7%; Score 256; DB 22; Length 133;  
Best Local Similarity 68.0%; Pred. No. 2.7e-13;  
Matches 51; Conservative 6; Mismatches 18; Indels 0; Gaps 0;  
QY 236 SESOILKESFVPTTPKNNKQREDENRLLPPPPVAETVPSPSYTETPLQRIPTA 295  
DB 54 AESKNLKESVVPPTASIEKNKQREDKNPILPPPPVAETSVPPPSVAGIETPIQLIRSA 113  
QY 296 TIAGEPLGHCTFTIS 310  
DB 114 ATAGESPGCAFPIS 128  
RESULT 3  
AAM62001  
ID AAM62001 standard; Protein; 133 AA.  
XX  
AC AAM62001;  
XX  
DT 05-NOV-2001 (first entry)  
XX  
DE Human brain expressed single exon probe encoded protein SEQ ID NO: 34106.  
XX  
KW Human; brain expressed exon; gene expression analysis; probe;  
KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;  
KW epilepsy; cancer.  
XX  
OS Homo sapiens.  
XX  
PN WO200157275-A2.  
XX  
PD 09-AUG-2001.  
XX  
PF 30-JAN-2001; 2001WO-US00667.  
XX  
PR 04-FEB-2000; 2000US-0180312.  
PR 26-MAY-2000; 2000US-0207456.  
PR 30-JUN-2000; 2000US-0608408.  
PR 03-AUG-2000; 2000US-0632366.  
PR 21-SEP-2000; 2000US-0234687.  
PR 27-SEP-2000; 2000US-0236359.  
PR 04-OCT-2000; 2000GB-0024263.  
XX  
PA (MOLE-) MOLECULAR DYNAMICS INC.  
XX  
PI Penn SG, Hanzel DK, Chen W, Rank DR;  
XX  
XX WPI; 2001-483446/52.  
XX

PT Single exon nucleic acid probes for analyzing gene expression in human  
 XX brains -  
 XX  
 PS Example 4; SEQ ID NO: 34106; 650pp + Sequence Listing; English.  
 XX  
 CC The present invention provides a number of single exon nucleic acid  
 CC probes which are derived from genomic sequences expressed in the human  
 CC brain. They can be used to measure gene expression in brain cell samples,  
 CC which may enable the diagnosis and improved treatment of nervous system  
 CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,  
 CC epilepsy and cancers. The present sequence is a protein encoded by one of  
 CC the probes of the invention.  
 XX  
 XX Sequence 133 AA;  
 PS  
 Query Match 11.7%; Score 256; DB 22; Length 133;  
 Best Local Similarity 68.0%; Pred. No. 2.7e-13;  
 Matches 51; Conservative 6; Mismatches 18; Indels 0; Gaps 0;  
 CC  
 QY 236 SESQILKESFVPPPTPKENNKQERDENWRLPPPPVAETPPSPSVTETPLQRIPTA 295  
 DB :||: |||| |||| || |||||:|: ||||| || || |||||:|:|  
 54 AESKNLKSVPPTASIKKQERDKNPILPPVAETSVPPSPVAGIETPIQIRLSA 113  
 QY 236 TIAGEPLGHCFTTIS 310  
 DB |||| | | | |  
 114 AIAGEPSGCAFPIS 128  
 RESULT 4  
 AAM74805  
 ID AAM74805 standard; Protein; 133 AA.  
 XX  
 AC AAM74805;  
 XX  
 DT 06-NOV-2001 (first entry)  
 XX  
 DE Human bone marrow expressed probe encoded protein SEQ ID NO: 35111.  
 XX  
 KW Human; bone marrow expressed exon; gene expression analysis; probe;  
 KW microarray; cancer; leukaemia; lymphoma; myeloma.  
 XX  
 OS Homo sapiens.  
 XX  
 FN WO200157276-A2.  
 XX  
 XX 09-AUG-2001.  
 PD  
 XX 30-JAN-2001; 2001WO-US00668.  
 PF  
 XX 04-FEB-2000; 2000US-0180312.  
 PR 26-MAY-2000; 2000US-0207456.  
 PR 30-JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-0632366.  
 PR 21-SEP-2000; 2000US-0234687.  
 PR 27-SEP-2000; 2000US-0236359.  
 PR 04-OCT-2000; 2000GB-0024263.  
 XX  
 PA (MOLE-) MOLECULAR DYNAMICS INC.  
 XX  
 PI Penn SG, Hanzel DK, Chen W, Rank DR;  
 XX  
 XX WPI; 2001-488900/53.  
 DR  
 XX Human genome-derived single exon nucleic acid probes useful for  
 PT analyzing gene expression in human bone marrow -  
 XX  
 XX Example 4; SEQ ID NO: 35111; 658pp + Sequence Listing; English.  
 PS  
 CC The present invention provides a number of single exon nucleic acid  
 CC probes which are derived from genomic sequences expressed in the human  
 CC bone marrow. They can be used to measure gene expression in bone marrow  
 CC samples, which may enable the improved diagnosis and treatment of cancers  
 CC such as lymphoma, leukaemia and myeloma. The present sequence is a

CC protein encoded by one of the probes of the invention.  
 XX  
 XX Sequence 133 AA;  
 PS  
 Query Match 11.7%; Score 256; DB 22; Length 133;  
 Best Local Similarity 68.0%; Pred. No. 2.7e-13;  
 Matches 51; Conservative 6; Mismatches 18; Indels 0; Gaps 0;  
 CC  
 QY 236 SESQILKESFVPPPTPKENNKQERDENWRLPPPPVAETPPSPSVTETPLQRIPTA 295  
 DB :||: |||| |||| || |||||:|: ||||| || || |||||:|:|  
 54 AESKNLKSVPPTASIKKQERDKNPILPPVAETSVPPSPVAGIETPIQIRLSA 113  
 QY 236 TIAGEPLGHCFTTIS 310  
 DB |||| | | | |  
 114 AIAGEPSGCAFPIS 128  
 RESULT 5  
 AAM34921  
 ID AAM34921 standard; Protein; 133 AA.  
 XX  
 AC AAM34921;  
 XX  
 DT 17-OCT-2001 (first entry)  
 XX  
 DE Peptide #8958 encoded by probe for measuring placental gene expression.  
 XX  
 KW Probe; microarray; human; placenta; antenatal diagnosis;  
 KW genetic disorder.  
 XX  
 OS Homo sapiens.  
 XX  
 FN WO200157272-A2.  
 XX  
 PD 09-AUG-2001.  
 XX  
 XX 30-JAN-2001; 2001WO-US00663.  
 PF  
 XX 04-FEB-2000; 2000US-0180312.  
 PR 26-MAY-2000; 2000US-0207456.  
 PR 30-JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-0632366.  
 PR 21-SEP-2000; 2000US-0234687.  
 PR 27-SEP-2000; 2000US-0236359.  
 PR 04-OCT-2000; 2000GB-0024263.  
 XX  
 PA (MOLE-) MOLECULAR DYNAMICS INC.  
 XX  
 PI Penn SG, Hanzel DK, Chen W, Rank DR;  
 XX  
 XX WPI; 2001-488897/53.  
 DR  
 XX Human genome-derived single exon nucleic acid probes useful for  
 PT analyzing gene expression in human placenta -  
 XX  
 XX Claim 27; SEQ ID No 35190; 654pp; English.  
 PS  
 XX The present invention relates to single exon nucleic acid probes (SENP:  
 CC see AA1315-AA157546). The present sequence is a peptide encoded by one  
 CC such probe. The probes are useful for producing a microarray for  
 CC predicting, measuring and displaying gene expression in samples derived  
 CC from human placenta. The probes are useful for antenatal diagnosis of  
 CC human genetic disorders.  
 XX  
 XX Sequence 133 AA;  
 PS  
 Query Match 11.7%; Score 256; DB 22; Length 133;  
 Best Local Similarity 68.0%; Pred. No. 2.7e-13;  
 Matches 51; Conservative 6; Mismatches 18; Indels 0; Gaps 0;  
 CC  
 QY 236 SESQILKESFVPPPTPKENNKQERDENWRLPPPPVAETPPSPSVTETPLQRIPTA 295  
 DB :||: |||| |||| || |||||:|: ||||| || || |||||:|:|  
 54 AESKNLKSVPPTASIKKQERDKNPILPPVAETSVPPSPVAGIETPIQIRLSA 113

QY 296 TIAGEPLGHCHTFTIS 310  
 II III I I I I I  
 Db 114 ATAGEPSGCAFPIS 128

RESULT 6  
 ABG44596  
 ID ABG44596 standard; Peptide; 133 AA.  
 AC ABG44596;  
 XX  
 DT 19-AUG-2002 (first entry)  
 XX  
 DE Human peptide encoded by genome-derived single exon probe SEQ ID 34261.  
 KW Human: single exon probe; asthma; lung cancer; COPD; ILD;  
 KW chronic obstructive pulmonary disease; interstitial lung disease;  
 KW familial idiopathic pulmonary fibrosis; neurofibromatosis;  
 KW tuberous sclerosis; Gaucher's disease; Niemann-Pick disease;  
 KW Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemosiderosis;  
 KW pulmonary histiocytosis; lymphangioleiomyomatosis; Karagener syndrome;  
 KW pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;  
 KW primary ciliary dyskinesia; pulmonary hypertension;  
 KW hyaline membrane disease.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200186003-A2.  
 XX  
 PD 15-NOV-2001.  
 XX  
 PF 30-JAN-2001; 2001WO-US00665.  
 XX  
 PR 04-FEB-2000; 2000US-180312P.  
 PR 26-MAY-2000; 2000US-207456P.  
 PR 30-JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-0632366.  
 PR 21-SEP-2000; 2000US-234687P.  
 PR 27-SEP-2000; 2000US-236359P.  
 PR 04-OCT-2000; 2000GB-0024263.  
 XX  
 PA (MOLE-) MOLECULAR DYNAMICS INC.  
 XX  
 PI Penn SG, Hanzel DK, Chen W, Rank DR;  
 XX  
 DR WPI; 2002-114183/15.  
 XX  
 PT Spatially-addressable set of single exon nucleic acid probes, used to  
 PT measure gene expression in human lung samples -  
 XX  
 PS Claim 27; SEQ ID No 34261; 634pp; English.  
 XX  
 CC The invention relates to a spatially-addressable set of single exon  
 CC nucleic acid probes for measuring gene expression in a sample derived  
 CC from human lung comprising single exon nucleic acid probes having one of  
 CC 12614 nucleic acid sequences mentioned in the specification, or their  
 CC complements or the 12387 open reading frames derived from the 12614  
 CC probes. Also included are a microarray comprising the novel set of  
 CC probes; the novel set of probes which hybridise at high stringency to a  
 CC nucleic acid expressed in the human lung; measuring gene expression in a  
 CC sample derived from human lung, comprising (a) contacting the array with  
 CC a collection of detectably labeled nucleic acids derived from human lung  
 CC mRNA, and (b) measuring the label detectably bound to each probe of  
 CC the array; identifying exons in a eukaryotic genome, comprising  
 CC (a) algorithmically predicting at least one exon from genomic sequences  
 CC of the eukaryote; and (b) detecting specific hybridisation of detectably  
 CC labeled nucleic acids from eukaryote lung mRNA, to a single exon probe,  
 CC having a fragment identical to the predicted exon, the probe is included  
 CC in the above mentioned microarray; assigning exons to a single gene,  
 CC comprising (a) identifying exons from genomic sequence by the method  
 CC above and (b) measuring the expression of each of the exons in several  
 CC tissues and/or cell types using hybridisation to a single exon

CC microarrays having a probe with the exon, where a common pattern of  
 CC expression of the exons in the tissues and/or cell types indicates that  
 CC the exons should be assigned to a single gene; a peptide comprising one  
 CC of 12011 sequences, mentioned in the specification, or encoded by the  
 CC probes/open reading frames (ORF). The probes are used for gene  
 CC expression analysis, and for identifying exons in a gene, particularly  
 CC using human lung derived mRNA and for the study of lung diseases  
 CC such as asthma, lung cancer, chronic obstructive pulmonary disease  
 CC (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary  
 CC fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease,  
 CC Niemann-Pick disease, Hermansky-Pudlak syndrome, sarcoidosis, pulmonary  
 CC haemosiderosis, pulmonary histiocytosis, lymphangioleiomyomatosis,  
 CC pulmonary alveolar proteinosis, Karagener syndrome, fibrocystic  
 CC pulmonary dysplasia, primary ciliary dyskinesia, pulmonary hypertension  
 CC and hyaline membrane disease. The present sequence is a peptide/protein  
 CC encoded by a single exon probe of the invention.  
 CC Note: The sequence data for this patent did not form part  
 CC of the printed specification, but was obtained in electronic  
 CC format directly from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences.  
 XX  
 SQ Sequence 133 AA;  
 Query Match 11.7%; Score 256; DB 23; Length 133;  
 Best Local Similarity 68.0%; Pred. No. 2.7e-13;  
 Matches 51; Conservative 6; Mismatches 18; Indels 0; Gaps 0;  
 QY 236 SESQILKESFVPTTPKKNKQEREDENRLLPPVPAETPPVSPVSTETETPLQIRPTA 295  
 Db 54 AESKMLKESVPPPTASIKKQEREDKNWPILPPVAETSPVPPSVAGIETPIQILKSA 113  
 QY 296 TIAGEPLGHCHTFTIS 310  
 Db 114 ATAGEPSGCAFPIS 128

RESULT 7  
 ABG04611  
 ID ABG04611 standard; Protein; 122 AA.  
 AC ABG04611;  
 XX  
 DT 13-FEB-2002 (first entry)  
 XX  
 DE Novel human diagnostic protein #4602.  
 KW Human; chromosome mapping; gene mapping; gene therapy; forensic;  
 KW food supplement; medical imaging; diagnostic; genetic disorder.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200175067-A2.  
 XX  
 PD 11-OCT-2001.  
 XX  
 PF 30-MAR-2001; 2001WO-US08631.  
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 PR 31-MAR-2000; 2000US-0540217.  
 PR 23-AUG-2000; 2000US-0649167.  
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 PA (HYSE-) HYSEQ INC.  
 PI Drmanac RT, Liu C, Tang YT;  
 XX  
 DR WPI; 2001-639362/73.  
 DR N-PSDB; AAS68798.  
 XX  
 PT New isolated polynucleotide and encoded polypeptides, useful in  
 PT diagnostics, forensics, gene mapping, identification of mutations  
 PT responsible for genetic disorders or other traits and to assess  
 PT biodiversity -  
 XX  
 PS Claim 20; SEQ ID No 34970; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC (II). (II) is useful for generating antibodies against it, detecting or  
CC quantitating a polypeptide in tissue, as molecular weight markers and as  
CC a food supplement. (II) and its binding partners are useful in medical  
CC imaging of sites expressing (II). (I) and (II) are useful for treating  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations  
CC responsible for genetic disorders or other traits to assess biodiversity  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. ABG00010-ABG30377 represent novel human  
CC diagnostic amino acid sequences of the invention.  
CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 122 AA;

Query Match 11.6%; Score 254; DB 22; Length 122;  
Best Local Similarity 59.1%; Pred. No. 3.5e-13;  
Matches 52; Conservative 7; Mismatches 21; Indels 8; Gaps 1;  
  
QY 236 SESQILKESFVPTPKENKQERDENWRLPPPPVATPPSPSVTEIPLQIPRTA 295  
DB 33 AESKNLKVPPPTAPTENKQREDKNWIPPPPIAETSVLPPSVABIETPKOTLCGA 92  
  
QY 296 TIAGELGCHCTTIS-----PAFVH 315  
DB 93 AIAGEPLGCTFPISVRPDSNNPQQFIH 120

RESULT 8  
ABB68342  
ID ABB68342 standard; Protein: 1178 AA.  
XX  
AC ABB68342;  
XX  
DT 26-MAR-2002 (first entry)  
XX  
DE Drosophila melanogaster polypeptide SEQ ID NO 31818.  
XX  
KW Drosophila; developmental biology; cell signalling; insecticide;  
KW pharmaceutical.  
XX  
OS Drosophila melanogaster.  
XX  
PN WO200171042-A2.  
XX  
PD 27-SEP-2001.  
XX  
PF 23-MAR-2001; 2001WO-US09231.  
XX  
PR 23-MAR-2000; 2000US-191637P.  
PR 11-JUL-2000; 2000US-0614150.  
XX  
PA (PEKE ) PE CORP NY.  
XX  
PI Venter JC, Adams M, Li PWD, Myers EW;  
XX  
XX WPI; 2001-656860/75.  
DR N-PSDB; ABL12445.  
XX  
XX New isolated nucleic acid detection reagent for detecting 1000 or more  
PT genes from Drosophila and for elucidating cell signalling and cell-cell  
PT interactions -  
XX

PS Disclosure; SEQ ID NO 31818; 21pp + Sequence Listing; English.  
XX  
CC The invention relates to an isolated nucleic acid detection reagent  
CC capable of detecting 1000 or more genes from Drosophila. The invention is  
CC useful in developmental biology and in elucidating cell signalling and  
CC cell-cell interactions in higher eukaryotes for the development of  
CC insecticides, therapeutics and pharmaceutical drugs. The invention  
CC discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA  
CC sequences (ABL01840-ABL16175) and the encoded proteins  
CC (ABB57737-ABB72072).  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 1178 AA;

Query Match 5.9%; Score 130; DB 22; Length 1178;  
Best Local Similarity 19.8%; Pred. No. 0.12;  
Matches 99; Conservative 59; Mismatches 180; Indels 162; Gaps 19;  
  
QY 49 QNPTLPSPVSHRPPGNAASVVTGGDCHLPTTEEFGLV-----QSMKCDTVRIKGVLIQ 101  
DB 416 QKPQVTCVTLVPPPPQESPVSAAETLEKRPQVGAISTSHSPQSLSSPTDSVDSAKS 475  
  
QY 102 GPTTAPPLMTS-----EGNVTAEDEEAIKRAFY-----YAV 132  
DB 476 TPSASPKPQTQVPMQPLLQMRPHLQANLSAQ-TPVTVPARVVRMQQAQIIPQRLPV 534  
  
QY 133 AAASAAEAHWHRLV-----LLSGQIHEPI-----GSGG 161  
DB 535 ASSAAMATMTRSIVTSTAGTSTITGR---PVATTLNNSNPTVAQLQSMANMAGGGG 591  
  
QY 162 NLIINTKG-----GRSC-----ONPA-----LPSDQ 183  
DB 592 QLIMTSSGQLLVIPPSKQTTQHHRRPGQGVIIQQQQAELHPQGGGIYVSPSPA 651  
  
QY 184 SPGNAATSVTRDN-----YHLLTEEEFGVWSQSMKWHSONK-----SGGSVP 226  
DB 652 AASSSSSTVILNSGGAKLLHHQIITSQAGQINQATSGSGNQPTVLLNPLNGGIY 711  
  
QY 227 VRGP-TQEPCESEQILKESFVPP-----TTPKENKQERDENWRLPPPPVAE-----T 274  
DB 712 QQQPQTQSPQAEQILAMPQPPPAQTLIISPDTRKRRARKKSSVCHTPPPSGSPAKIIS 771  
  
QY 275 PVPSPVTEIETPLQIPRTATIAEGLGCHCTFTISAFVHSLVNLKR----- 322  
DB 772 FQISPSINQAPALLHQAAAAAQAAPQFQQLSPGIQIVVKNPDPQPPQPTQQQLLL 831  
  
QY 323 -----RQLEILLREVEWPGRGHMAATCCKLQVEGQDRT-MSLAAAPVREAPPPPTGASS 375  
DB 832 QNGQILQQVNLIGQQLLMPAGLVMPGPDATLIQINMPATSLMTPOGPVMLRTPSPQNKPS 891  
  
QY 376 --EPSVPA---LPGADPQRS 390  
DB 892 FISPSAGGQQYLVGANGQLS 911

RESULT 9  
AAM38978  
ID AAM38978 standard; Protein: 641 AA.  
XX  
AC AAM38978;  
XX  
DT 22-OCT-2001 (first entry)  
XX  
DE Human polypeptide SEQ ID NO 2123.  
XX  
KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;  
KW peripheral nervous system; neuropathy; central nervous system; CNS;  
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;  
KW amyotrophic lateral sclerosis; Shy-brager Syndrome; chemotactic;  
KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;  
KW leukaemia.



AA PA (HYSE-) HYSEQ INC.

DT xy

DT xy

Human protein sequence SEQ ID NO:14398.

Human; primer; detection; diagnosis; antisense therapy; gene therapy.

Homo sapiens.

EP1074617-A2.

07-FEB-2001.

28-JUL-2000; 2000EP-0116126.

29-JUL-1999; 99JP-0248036.

27-AUG-1999; 99JP-0300253.

11-JAN-2000; 2000JP-0118776.

02-MAY-2000; 2000JP-0183767.

09-JUN-2000; 2000JP-0241899.

(HELI-) HELIX RES INST.

Ota T, Isoqai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;

Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;

WPI; 2001-318749/34.

Primer sets for synthesizing polynucleotides, particularly the 5602

full-length cDNAs defined in the specification, and for the detection

and/or diagnosis of the abnormality of the proteins encoded by the

full-length cDNAs -

Claim 8; SEQ ID 14398; 2537pp + CD ROM; English.

The present invention describes primer sets for synthesizing 5602

full-length cDNAs defined in the specification. Where a primer set

comprises: (a) an oligo-dT primer and an oligonucleotide complementary

to the complementary strand of a polynucleotide which comprises one of

the 5602 nucleotide sequences defined in the specification, where the

oligonucleotide comprises at least 15 nucleotides; or (b) a combination

of an oligonucleotide comprising a sequence complementary to the

complementary strand of a polynucleotide which comprises a 5'-end

sequence and an oligonucleotide comprising a sequence complementary to a

polynucleotide which comprises a 3'-end sequence, where the

oligonucleotide comprises at least 15 nucleotides and the combination of

the 5'-end sequence/3'-end sequence is selected from those defined in

the specification. The primer sets can be used in antisense therapy and

in gene therapy. The primers are useful for synthesizing polynucleotides,

particularly full-length cDNAs. The primers are also useful for the

detection and/or diagnosis of the abnormality of the proteins encoded by

the full-length cDNAs. The primers allow obtaining of the full-length

cDNAs easily without any specialised methods. AAH03166 to AAH13628 and

AAH13633 to AAH18742 represent human cDNA sequences; AAH92446 to

AAH95893 represent human amino acid sequences; and AAH13629 to AAH13632

represent oligonucleotides, all of which are used in the exemplification

of the present invention.

Sequence 705 AA;

Query Match

Best Local Similarity 5.9%; Score 129.5; DB 22; Length 705;

Matches 89; Conservative 45; Mismatches 165; Indels 107; Gaps 17;

41 GAQNLMTCONP-----TLPSVSHRSP--GNAASVTGGDCHLPTFEFGLVQSM 89

90 GRDRLSDAKKPPSGIARPTSGSGFGYKPPATGATVMTGTGS-----ATLSKIQ 140

90 KCDTVRIKVGLOGPTTAPPLMTSEGNVTAEDTEAIRFAVVAASAAEAHWHRLVLL 149

141 KSGGIPVKPV-----NCRKTLSDVNSNAEPGFLAPGARSNIQ-----YRSL---- 181

150 SQGHEPTGSGGNIINTNKGSRCONPALPSPDQSGNATTSVTDNVLHLLTEEEFGVW 209

182 ----PRPAKSSMSVNT---GGRGPRPVSSSIDPS-----LLSTQGGGLT 219

QY 210 SQSMKWHSONKSGGVPVGRPTQEPCESEQILKESFV-----PPTTPKKN 255  
 Db 220 PSRLKEPTKVASGRTP--APVQTDREKAKAKAVALDSNLSKISGSPSTPKNQ 277  
 QY 256 KQREDEENWRLPPPV--AETPVSPSVTEIE-----TPLORIP---RT 294  
 Db 278 SHPTATKLAELPPTPLRATAKSFVKPPPSLANLDKNSNLSLDPSSDTHASKVPDLHAT 337  
 QY 295 ATIAGEPLGCHCTTISPAFVHSLNKRKQLELLREVEWPGRHMAATCCCKL--QVEGQ 352  
 Db 338 SSASGGPLPSC--FTSPAPILNINSASFQGLELMGSGSVPKETRMYPKLSGLHRSWESL 396  
 QY 353 DRTMSLAAA-----PVREAPPPTGASSEPSVPALPGADPQSAEL 393  
 Db 397 QMPMSLPSAFTSPSTPV-PTFPAPPAAPTEETEELTWSSGSPRAGL 441

RESULT 13

AAH38979

ID AAM38979 standard; Protein; 706 AA.

AC AAM38979;

XX 22-OCT-2001 (first entry)

XX Human polypeptide SEQ ID NO 2124.

XX Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;

KW peripheral nervous system; neuropathy; central nervous system; CNS;

KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;

KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;

KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;

KW leukaemia.

OS Homo sapiens.

XX WO200153312-A1.

PD 26-JUL-2001.

XX 26-DEC-2000; 2000WO-US34263.

XX 21-JAN-2000; 2000US-0488725.

PR 25-APR-2000; 2000US-0552317.

PR 09-JUL-2000; 2000US-0598042.

PR 19-JUL-2000; 2000US-0620312.

PR 03-AUG-2000; 2000US-0653450.

PR 14-SEP-2000; 2000US-0662191.

PR 19-OCT-2000; 2000US-0693036.

PR 29-NOV-2000; 2000US-0727344.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;

PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;

PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;

XX WPI; 2001-442253/47.

DR N-PSDB; AA158135.

XX Novel nucleic acids and polypeptides, useful for treating disorders

PT such as central nervous system injuries -

PS Example 4; SEQ ID NO 2124; 10078pp; English.

XX The invention relates to human nucleic acids (AA157798-AA161369) and

CC the encoded polypeptides (AAM38642-AA42213) with nootropic,

CC immunosuppressant and cytostatic activity. The polynucleotides are useful

CC in gene therapy. A composition containing a polypeptide or polynucleotide

CC of the invention may be used to treat diseases of the peripheral nervous

CC system, such as peripheral nervous injuries, peripheral neuropathy and

CC localised neuropathies and central nervous system diseases, such as

CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic



CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the  
 CC utilisation of the activities such as: Immune system suppression,  
 CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic  
 CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,  
 CC assays for receptor activity, arthritis and inflammation, leukaemias and  
 CC C.N.S disorders.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification.  
 XX SQ

Sequence 706 AA;

Query Match 5.9%; Score 129.5; DB 22; Length 706;  
 Best Local Similarity 21.9%; Pred. NO. 0.066;  
 Matches 89; Conservative 45; Mismatches 165; Indels 107; Gaps 17;

QY 41 GAQNLMTCNP-----TLPSVSHRSP---GNAAVSVTGDCDCHLTTEEEFVGVQSM 89  
 DB 90 GDRLSDAKKPPSGTARSTSGSGFYKKPPPATGTATVMTGGS-----ATLSKIQ 140  
 QY 90 KODTVRIKGVLOGPTTAPPLMTSEGNVTAEDTEEAIRAFVAVAAASAAEAHWRHLVLL 149  
 DB 141 KSSGIPVPKPV-----NGRKTSLDVNSAEFGFLAPGARSNIQ---YRSL--- 181  
 QY 150 SQIHEPIGSGNIINTNKGRCQNAPALPSPDQSPSGNATTSVTRDNYHLTEEEFGVM 209  
 DB 182 ----PRPAKSSMSVT---GGRGGPRPVSSSIDPS-----LLSTKQGGILT 219  
 QY 210 SQSMKWHSONKSGGVPVRGPTQEPCEISOILKESFV-----PPTPKENN 255  
 DB 220 PSRLKEPTKVASGRTP--APVNTDREKAKAKAVALDSDNISLKSIGSPSTPKNOA 277  
 QY 256 KOEREDENWRLLPPPV---AETPVSPSVTEIE-----TPLQRIIP---RT 294  
 DB 278 SHPTATKLAELPPTPLRTAKSFVKPPSLANLDKVNNSLDLPSSSDTTHASKVPDLHAT 337  
 QY 295 ATIAGEPLGCHTFTTSPAFVHSLNKRKQLELLREVIEWPGRGHMAATCKL--QVEGQ 352  
 DB 338 SSASGGPLPSC-FTSPAPILNINSASFQGLELMSFGFVPEKTRMYPKLSGLHRSMESL 396  
 QY 353 DRTMSLAAA-----PVREAPPPTCASPEPSVPALPGADPQRSABL 393  
 DB 397 QMPMSLPSAFPSSTPV-PTPPAPPAAPTEETEELTWSGSPRAGQL 441

RESULT 14  
 AAY85564  
 ID AAY85564 standard; Protein; 1837 AA.  
 AC AAY85564;  
 XX

07-JUL-2000 (first entry)

Human homologue of UNC-53 (Hs-UNC-53/1) sequence.

UNC-53; Caenorhabditis elegans; microtubule; neural regeneration;  
 anticancer; anti-neurodegeneration; antifibrotic; anti-adhesive; human;  
 antisclerotic; antimetastatic; anti-arthritis; autoimmune disease.

OS Homo sapiens.

XX Key Location/Qualifiers  
 FH 958..1014  
 FT Region /note= "this region is found to be absent when encoded by  
 a variant cDNA isolated from frontal cortex"  
 FT Region 1033..1040  
 FT /note= "this region is found to be absent when encoded by  
 a variant cDNA isolated from frontal cortex"  
 FT Region 1173..1175  
 FT /note= "this region is found to be absent when encoded by  
 a variant cDNA from Hela or colorectal  
 adenocarcinoma tissue"  
 FT Misc-difference 1233  
 FT /label= Leu or Ser

XX WO9963080-A1.  
 XX 09-DEC-1999.  
 XX 02-JUN-1999; 99WO-EP03848.  
 XX 03-JUN-1998; 98GB-0011962.  
 XX (JANC ) JANSSEN PHARM NV.  
 XX Luyten WHML, De Raeymaeker MC, Geysen JJGH, Bogaert TAOE;  
 PI Maerten LJS, Verhasselt P, Van De Craen M;  
 XX WPI: 2000-116370/10.  
 DR N-PSDB; AAA07835.  
 XX Novel proteins and nucleic acids e.g. for treating neurodegeneration -  
 PS Claim 93; Fig 1b; 146pp; English.  
 XX The invention provides vertebrate (human) protein homologue of a UNC-53  
 CC protein of Caenorhabditis elegans. The UNC-53 binds to microtubules or  
 CC their plus ends. The UNC-53 sequences are used to promote neural  
 CC regeneration, revascularization and wound healing; also for treating  
 CC neurodegenerative disease, acute traumatic injury, fibrotic disease and  
 CC autoimmune diseases (e.g. rheumatoid arthritis and sclerosis). The UNC-53  
 CC polynucleotides can be used for recombinant production of the proteins,  
 CC as a source of probes for detecting allelic variants and polymorphisms,  
 CC for sequencing genomic DNA and for detecting UNC-53 expression; and as  
 CC source of therapeutic antisense sequences. Cells that express the  
 CC protein are used to identify regulators of cell shape, growth, motility  
 CC and migration. They can also be used to identify proteins that are  
 CC involved in signal transduction pathways also involving UNC-53, and to  
 CC identify compounds that alter attachment of UNC-53 to microtubules. A  
 CC target gene coupled to a UNC-53 encoding sequence may be used to deliver  
 CC the target gene to a cellular microtubule or its plus ends. The present  
 CC sequence represents the amino acid sequence of the first human homologue  
 CC of UNC-53, designated hs-UNC-53/1.  
 XX SQ Sequence 1837 AA;  
 Query Match 5.9%; Score 129.5; DB 21; Length 1837;  
 Best Local Similarity 21.9%; Pred. NO. 0.24;  
 Matches 89; Conservative 45; Mismatches 165; Indels 107; Gaps 17;  
 QY 41 GAQNLMTCNP-----TLPSVSHRSP---GNAAVSVTGDCDCHLTTEEEFVGVQSM 89  
 DB 541 GDRLSDAKKPPSGTARSTSGSGFYKKPPPATGTATVMTGGS-----ATLSKIQ 591  
 QY 90 KODTVRIKGVLOGPTTAPPLMTSEGNVTAEDTEEAIRAFVAVAAASAAEAHWRHLVLL 149  
 DB 592 KSSGIPVPKPV-----NGRKTSLDVNSAEFGFLAPGARSNIQ---YRSL--- 632  
 QY 150 SQIHEPIGSGNIINTNKGRCQNAPALPSPDQSPSGNATTSVTRDNYHLTEEEFGVM 209  
 DB 633 ----PRPAKSSMSVT---GGRGGPRPVSSSIDPS-----LLSTKQGGILT 670  
 QY 210 SQSMKWHSONKSGGVPVRGPTQEPCEISOILKESFV-----PPTPKENN 255  
 DB 671 PSRLKEPTKVASGRTP--APVNTDREKAKAKAVALDSDNISLKSIGSPSTPKNOA 728  
 QY 256 KOEREDENWRLLPPPV---AETPVSPSVTEIE-----TPLQRIIP---RT 294  
 DB 729 SHPTATKLAELPPTPLRTAKSFVKPPSLANLDKVNNSLDLPSSSDTTHASKVPDLHAT 788  
 QY 295 ATIAGEPLGCHTFTTSPAFVHSLNKRKQLELLREVIEWPGRGHMAATCKL--QVEGQ 352  
 DB 789 SSASGGPLPSC-FTSPAPILNINSASFQGLELMSFGFVPEKTRMYPKLSGLHRSMESL 847  
 QY 353 DRTMSLAAA-----PVREAPPPTCASPEPSVPALPGADPQRSABL 393  
 DB 848 QMPMSLPSAFPSSTPV-PTPPAPPAAPTEETEELTWSGSPRAGQL 892

RESULT 15  
ABB65774  
ID ABB65774 standard; Protein; 828 AA.  
XX AC ABB65774;  
XX DT 26-MAR-2002 (first entry)  
XX DE Drosophila melanogaster polypeptide SEQ ID NO 24114.  
XX KW Drosophila; developmental biology; cell signalling; insecticide;  
XX KW pharmaceutical.  
XX OS Drosophila melanogaster.  
XX PN WO200171042-A2.  
XX PD 27-SEP-2001.  
XX PF 23-MAR-2001; 2001WO-US09231.  
XX PR 23-MAR-2000; 2000US-191637P.  
XX PR 11-JUL-2000; 2000US-0614150.  
XX PA (PEKE ) PE CORP NY.  
XX PI Venter JC, Adams M, Li PWD, Myers EW;  
XX DR N-PSDB; ABL09877.  
XX PT New isolated nucleic acid detection reagent for detecting 1000 or more  
XX PT genes from Drosophila and for elucidating cell signalling and cell-cell  
XX PT interactions .  
XX PS Disclosure; SEQ ID NO 24114; 21pp + Sequence Listing; English.  
XX CC The invention relates to an isolated nucleic acid detection reagent  
XX CC capable of detecting 1000 or more genes from Drosophila. The invention is  
XX CC useful in developmental biology and in elucidating cell signalling and  
XX CC cell-cell interactions in higher eukaryotes for the development of  
XX CC insecticides, therapeutics and pharmaceutical drugs. The invention  
XX CC discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA  
XX CC sequences (ABL01840-ABL16175) and the encoded proteins  
XX CC (ABB5737-ABB72072).  
XX CC The sequence data for this patent did not form part of the printed  
XX CC specification, but was obtained in electronic format directly from WIPO  
XX CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX CC Sequence 828 AA;  
Query Match 5.9%; Score 128.5; DB 22; Length 828;  
Best Local Similarity 22.3%; Pred. No. 0.099;  
Matches 100; Conservative 44; Mismatches 134; Indels 171; Gaps 22;  
QY 14 KOLGOALQASV-----SLSLITENQKRCPCGCAQNLMTCONPTLPSVSHRSPPGNAAYS 68  
DB 488 QQQQQEQASQAYSSQIITVNNLVGYATAAQN-----SPTSPNESN-----533  
QY 69 VTGGDCHLPTEEFEGVLVQSMKCDTVIRKVLQGPPTAPPLMTSEGNVTAEDTEAIRAF 128  
DB 534 -----WQSV-----YSQPT-----PTQSPVHA- 552  
QY 129 VYVAASAARAEAWHRLVLLSQIHEPTGSGGNIINTNKGKRSQNPALP-SPDQSPSG 187  
DB 553 --GYGASAAG-----GAGNASAGNGGAPGAANQVVKRRKRSVNPQG 592  
QY 188 NATTSVTRDNYHLLTE-----EEFGVWSQSMKWSQKSGSVVVRGPTQEP 234  
DB 593 D-----ENFTRALEAVRTGGIGFCKAARLYGVNNTL-WLEYKRRG-----YVSRP 638

QY 235 CSESQILKE--SFVPPPTPKENNKQEREDENWRLPPPPVAETPPVSPSPVTEIETPLQRI 292  
DB 639 SIKARVVKQEPNLSPTSTNQGDNTNETLGMQIPQAEPTPSLMCTSHHTGL-----694  
QY 293 RTATTAGE-PLG---HCTFTI-----SPAFVHVLNKKRQLELLLEVEVMPGRG 338  
DB 695 --GSGAGSLPAGGNSHPAIGVMSLFDPRYMDSPGNVHSMTRQ-----RYIEATGG 743  
QY 339 HMAATCC-----KLQVEGQDRTMSLAAAPVREAPPPTGASSEP-----SVPALPGADP 387  
DB 744 AGAGTGAGTGTTNTTISQAGTATILQAAVM-----AASEPAESLSISAMPVSP 794  
QY 388 QRSARELLL-----AVTREGLE 404  
DB 795 MGAHSLFLINNFVTVAAPPVATVTSTGLQ 823  
Search completed: December 25, 2002, 01:10:35  
Job time : 72 secs